ITDB Interfaces

- Web Interface
- REST API
- JSON
- Web Service Interface
- API
- Customs National System
Web application Interface

get Holder information

Request
## Web application Interface

### ITDB Interfaces

[Image of the ITDB interface with a web application and a server]

**Response**
Web service

Customs National System

get Holder information

Request
Web service

Customs National System

Response
What we did to facilitate its use
<table>
<thead>
<tr>
<th>Old ITDB - SOAP Web Service</th>
<th>New ITDB - REST Web Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modify National System</td>
<td>Modify National System</td>
</tr>
<tr>
<td>Generate the client certificate</td>
<td>Install UNECE’s certificate</td>
</tr>
<tr>
<td>Generate the public and private keys</td>
<td></td>
</tr>
<tr>
<td>Create a trust-store and a key-store and connect them to the application</td>
<td></td>
</tr>
<tr>
<td>Install the server’s certificate and public key</td>
<td></td>
</tr>
</tbody>
</table>
Benefits
ITDB Web Service Benefits

Declaration → Acceptance & Risk analysis → National data base

- Declaration
- Acceptance & Risk analysis
- National data base

tranSPORT

CARNET TIR * 4 volets

ITDB Web Service Benefits
ITDB Web Service Benefits

Acceptance & Risk analysis

National data base
ITDB Web Service Benefits
ITDB Web Service Benefits

- Acceptance & Risk analysis
- National database

Check Holder Status

100% Holders Checked
Old ITDB Issues

- No connection via Web Service
- No consequences for not updating data
- Few people update data
- Data not accurate

Vicious cycle
Breaking the vicious cycle

Connect to the Web Service

Few people update data

No consequences for not updating data

Data not accurate

Consequences for not updating data

People update data

Accurate Data

ITDB Web Service Benefits
How it works
Web service

get Holder information (**Holder ID**)

See paragraph 31, WS - Customs Guide
When to make the query

ITDB Web Service - How it works

Acceptance

Risk analysis

ITDB Web Service
get Holder Information (Holder ID)

I4 message

eTIR ref. Model

{
  "error": null,
  "functionalReference": "",
  "holder": {
    "address": {
      "cityName": "City",
      "country": "Country Code",
      "postCode": "Post Code",
      "streetAndPoBox": "Street"
    },
    "authorization": {
      "activeExclusion": null,
      "activeWithdrawal": null,
      "currentStatus": "001"
    },
    "code": "Holder ID",
    "name": "Company Name"
  },
  "messageFunction": "I4",
  "messageReferenceNumber": "",
  "type": "I4"
}
get Holder Information ( **Holder ID** )

**Holder status**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Authorized</td>
</tr>
<tr>
<td>002</td>
<td>Withdrawn (according to Annex 9, Part II)</td>
</tr>
<tr>
<td>003</td>
<td>End of activity</td>
</tr>
<tr>
<td>004</td>
<td>Excluded (according to Article 38)</td>
</tr>
</tbody>
</table>

The Excluded status is displayed based on who is checking the status. The holder status will be displayed with status Excluded in the following cases:

- The holder has an active exclusion in the country checking the status.
- The active exclusion is in a country of the same union (ex. European Union).

In all other cases, the holder status will be displayed as Authorized (see a few examples in the table below).

**Status Example**

<table>
<thead>
<tr>
<th>Country checking the status</th>
<th>Active exclusion from status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finland</td>
<td>Finland</td>
</tr>
<tr>
<td>Finland (EU member)</td>
<td>Finland</td>
</tr>
<tr>
<td>Germany (EU member)</td>
<td>Germany</td>
</tr>
</tbody>
</table>

**Error codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Incorrect code value</td>
</tr>
</tbody>
</table>

---

*See paragraph 31, WS - Customs Guide*
get Holder Information ( Holder ID )

**Holder status**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Authorized</td>
</tr>
<tr>
<td>002</td>
<td>Withdrawn (according to Annex 9, Part II)</td>
</tr>
<tr>
<td>003</td>
<td>End of activity</td>
</tr>
<tr>
<td>004</td>
<td>Excluded (according to Article 38)</td>
</tr>
</tbody>
</table>

- The Excluded status is displayed based on who is checking the status.
- The holder status will be displayed with status Excluded in the following cases:
  - The holder has an active exclusion in the country checking the status.
  - The active exclusion is in a country of the same union (e.g., European Union).
- In all other cases, the holder status will be displayed as Authorized (see a few examples in the table below).

**Status Example**

<table>
<thead>
<tr>
<th>Country checking the status</th>
<th>Active exclusion from status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finland</td>
<td>Finland (EU member)</td>
</tr>
<tr>
<td>Finland</td>
<td>Excluded</td>
</tr>
<tr>
<td>Finland (EU member)</td>
<td>Germany (EU member)</td>
</tr>
<tr>
<td>Excluded</td>
<td></td>
</tr>
<tr>
<td>Finland</td>
<td>Germany</td>
</tr>
<tr>
<td>Authorized</td>
<td></td>
</tr>
<tr>
<td>Russia</td>
<td>Germany</td>
</tr>
<tr>
<td>Excluded</td>
<td></td>
</tr>
<tr>
<td>Finland</td>
<td>Russia</td>
</tr>
<tr>
<td>Authorized</td>
<td></td>
</tr>
</tbody>
</table>

**Error codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Incorrect code value</td>
</tr>
</tbody>
</table>

See paragraph 31, WS - Customs Guide
National TIR Program
Adapt your National System interface
Current status
ITDB Web Service - Current status

**Connected**
- CZE
- FIN
- UZB

**In test**
- FRA
- HUN
- LVA

**Analysing**
- AZE
- BIH
- DNK
- GRE
- POL
- ROU
- TUR
Number of queries per day (3 connected countries)

- Number of Checks
- Unique Holder IDs

Graph showing the number of checks and unique holder IDs per day from 6/5/18 to 3/6/18.
Current functionality

**Holders:**
- Holder list
- show Holder
- create/edit Holder
- Withdrawal list
- create/edit Withdrawal
- Exclusion list
- create/edit Exclusion

**Register Stamps & Sealing:**
- country list
- show country details

**Web Interface**

**ITDB Web Service - Current status**
Current functionality

**Holders:**
- Holder list
- **show Holder**
- create/edit Holder
- Withdrawal list
- create/edit Withdrawal
- Exclusion list
- create/edit Exclusion

**Register Stamps & Sealing:**
- country list
- show country details

**Web Interface**

**ITDB Web Service - Current status**
Assistance by TIR secretariat

- IT Guide & Customs Guide
- IT department ➔ contact TIR secretariat
- Video conference
Thank you!

Ms. Anastasia Metzger  
Team Assistant  
TIR secretariat

Mr. Joan Padreny  
Information Systems Officer  
TIR secretariat

UNECE

UNECE